

GenCore version 5.1.7  
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OM nucleic - nucleic search, using sw model

Run on: February 25, 2006, 10:03:30 ; Search time 314 Seconds

(without alignments)  
9385.978 Million cell updates/sec

Title: US-10-732-721-1

Perfect score: 1658

Sequence: 1 gaattcagcggtcacatcac.....ctcgcttagttggagcgcg 1658

Scoring table: IDENTITY NUC

Gapop 10.0, Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA.\*  
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8: /cgn2\_6/ptodata/1/ina/6 COMB.seq:\*  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length DB	ID	Description
C 1	53.6	3.2	2750	US-08-617-8608-33	Sequence 33, Appl
C 2	51.4	3.1	6265	US-09-129-112-3	Sequence 3, Appl
C 3	46.4	2.8	2250	US-09-710-279-137	Sequence 137, App
C 4	46.4	2.8	2448	US-09-134-001C-777	Sequence 777, App
C 5	46.4	2.8	4198	US-09-710-279-3604	Sequence 3604, App
C 6	46.4	2.8	20674	US-09-641-638-651	Sequence 651, App
C 7	46.4	2.8	20674	US-10-170-097-651	Sequence 651, App
C 8	45.2	2.8	23501	US-09-949-016-17517	Sequence 17517, A
C 9	45.2	2.7	2726	US-09-270-767-11149	Sequence 11149, A
C 10	44.8	2.7	19438	US-09-949-016-12699	Sequence 12699, A
C 11	44.8	2.7	5852	US-07-867-106-2	Sequence 2, Appl
C 12	44.8	2.7	18651	US-09-949-002-592	Sequence 592, App
C 13	44.8	2.7	18682	US-09-949-002-786	Sequence 786, App
C 14	44.8	2.7	40742	US-09-949-016-11751	Sequence 11751, A
C 15	44.8	2.7	40747	US-09-949-016-13097	Sequence 13097, A
C 16	44.8	2.7	168575	US-09-426-290-1	Sequence 1, Appl
C 17	44.8	2.7	390416	US-09-949-016-16923	Sequence 16923, A
C 18	43.8	2.6	1664976	US-08-916-421B-1	Sequence 1, Appl
C 19	43.8	2.6	1664976	US-09-692-570-1	Sequence 1, Appl
C 20	43.6	2.6	601	US-09-949-016-179693	Sequence 179693, A
C 21	43.6	2.6	601	US-09-949-016-186365	Sequence 186365, A
C 22	43.6	2.6	95255	US-09-949-016-17067	Sequence 17067, A
C 23	43.4	2.6	50000	US-09-662-254B-23	Sequence 23, Appl
C 24	43.2	2.6	601	US-09-949-016-79980	Sequence 79980, A

C 25	43.2	2.6	38078	US-09-949-016-12429	Sequence 12429, A
C 26	43.2	2.6	38084	US-09-949-016-16459	Sequence 16459, A
C 27	43.2	2.6	312470	US-09-949-016-14043	Sequence 14043, A
C 28	43.2	2.6	336024	US-09-949-016-12373	Sequence 12373, A
C 29	43	2.6	1141	US-09-806-708B-22	Sequence 22, Appl
C 30	43	2.6	1296	US-09-107-532A-3402	Sequence 3402, Ap
C 31	43	2.6	1296	US-09-134-000C-3111	Sequence 3111, Ap
C 32	43	2.6	3245	US-09-774-528-352	Sequence 352, App
C 33	43	2.6	3245	US-10-120-988-352	Sequence 352, App
C 34	43	2.6	5852	US-07-867-106-2	Sequence 2, Appl
C 35	43	2.6	10640	US-09-417-485D-5	Sequence 5, Appl
C 36	43	2.6	50000	US-09-662-254B-26	Sequence 26, Appl
C 37	42.8	2.6	30820	US-09-949-016-17145	Sequence 17145, A
C 38	42.6	2.6	735	US-09-248-796A-4800	Sequence 4800, Ap
C 39	42.6	2.6	1850	US-08-617-8608-32	Sequence 32, Appl
C 40	42.6	2.6	2304	US-09-662-254B-43	Sequence 43, Appl
C 41	42.6	2.6	4098	US-08-605-106-4	Sequence 4, Appl
C 42	42.6	2.6	9636	US-08-323-170B-1	Sequence 1, Appl
C 43	42.6	2.6	9636	US-08-954-441-1	Sequence 1, Appl
C 44	42.6	2.6	50000	US-09-662-254B-24	Sequence 24, Appl
C 45	42.6	2.6	51952	US-08-947-823-1	Sequence 1, Appl

## ALIGNMENTS

RESULT 1  
US-08-617-8608-33/c  
Sequence 33, Application US/08617860B  
Patent No. 6133506  
GENERAL INFORMATION:  
APPLICANT: Tynter, R., Baur, J., Bothmann, H., Filasak, E.,  
Havlicke-Grandpierre, C., Klein, B., Martin, N.,  
APPLICANT: M Iler, A., Schulte, W., Voeltz, M., Walek, J.,  
APPLICANT: Scheil, J.  
TITLE OF INVENTION: Promoters  
NUMBER OF SEQUENCES: 35  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Steinberg, Raikin & Davidson, P.C.  
STREET: 1140 Avenue of the Americas  
CITY: New York  
STATE: New York  
COUNTRY: USA  
ZIP: 10036  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 3.50 inch, 1.4 Mb storage  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/617,860B  
FILING DATE: 01-MAR-1996  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/EP94/02950  
FILING DATE: 05-SEP-1994  
APPLICATION NUMBER: DE P4329951.2  
FILING DATE: 04-SEP-1993  
INFORMATION FOR SEQ ID NO: 33:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 2750 Base pairs  
TYPE: Nucleic acid  
STRANDEDNESS: Double stranded  
TOPOLOGY: linear  
MOLECULAR TYPE: DNA (genomic)  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
ORIGINAL SOURCE:  
ORGANISM: Cnipea lanceolata  
IMMEDIATE SOURCE:  
LIBRARY: genomic lambda FIX II  
CLONE: CITE94  
FEATURE:  
NAME/KEY: Statocodon

LOCATION: 2637..2639  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 2637..2750  
US-08-617-860B-33

Query Match 3.2%; Score 53.6; DB 3; Length 2750;  
Best Local Similarity 53.3%; Pred. No. 0.0018;  
Matches 113; Conservative 0; Mismatches 99; Indels 0; Gaps 0;

QY 37 AATAATTTATAGTAGATTTACTTCTTGATCAATTCGAGAGGAAAAATTCGA 96  
DB 1778 ATGTTTACATGTTTATGATATATATGCCCCCTTCACTAAATTTTAAATTA 1719  
QY 97 AGAAGCAAAATATTTTAAATGATGATGCAATATCAATTTTATACCAATTTATGTA 156  
DB 1778 CGAAAAATTAATAGTCGAGATTAATAAATTCATTTATTTATTTT 1659  
QY 157 GATTCATTTGTTAGTTTATGATGAAATCAATTTCTAGAGTCATATATGCTTAATTA 216  
DB 1658 TATTAATTAATATATTTTGTATTAATTTCAATTTGAAGAAAAATTTGAACCAATTA 1599  
QY 217 AATTCATTTCTATTTTCTTCTTGAAGAAAA 248  
DB 1598 AATCTTTTATGTTTATTTTCTTAAATTA 1567

## RESULT 2

US-09-129-112-3/C  
Sequence 3, Application US/09129112  
Patent No. 6465716

GENERAL INFORMATION:  
APPLICANT: Ezzler, Marilyn E.  
APPLICANT: Murphy, Judith B.  
TITLE OF INVENTION: The Regents of the University of California  
FILE REFERENCE: 023070-079810US  
CURRENT FILING DATE: 1998-08-04  
PRIOR APPLICATION NUMBER: US 08/907,226  
PRIOR FILING DATE: 1997-08-06  
NUMBER OF SEQ ID NOS: 19  
SOFTWARE: Patent Ver. 2.1  
SEQ ID NO 3  
LENGTH: 6265  
TYPE: DNA  
ORGANISM: Dolichos biflorus

FEATURE:  
OTHER INFORMATION: genomic sequence of NBP46 (DB46)  
NAME/KEY: exon  
LOCATION: (633)..(944)  
NAME/KEY: intron  
LOCATION: (945)..(1022)  
NAME/KEY: exon  
LOCATION: (1023)..(1151)  
NAME/KEY: intron  
LOCATION: (1152)..(1559)  
NAME/KEY: exon  
LOCATION: (1560)..(1616)  
NAME/KEY: intron  
LOCATION: (1617)..(1697)  
NAME/KEY: exon  
LOCATION: (1698)..(1790)  
US-09-129-112-3

Query Match

Best Local Similarity 49.4%; Score 51.4; DB 3; Length 6265;  
Matches 133; Conservative 0; Mismatches 136; Indels 0; Gaps 0;

QY 24 TCATCTACATGATGATTAATTTATAGTTAGTTACTTCTTGATCAATTCGAGAGTGA 83  
DB 3725 TCCGCTTAAGATTAATTTGCGAAAAATTAATCAATATGATTAATTAATTTAT 3666

QY 84 AAAAAATCGCAGAAAGCAATATTTTAATGATGCAATATTAATTAATTA 143  
DB 3665 AATTAATCAATTAATTAATTAATTTTATTTATTAATTAATTAATTA 3606  
QY 144 CACAATATGTAATCAATATGTTTGTGTTTATAGAAATCAATTCAGAGTCAATA 203  
DB 3605 AATAATTAATTAATTAATTAATTTTATTTATTAATTAATTAATTA 3546  
QY 204 ATGCTTAATTAATTAATTTCTATTTCTTATTTCTTAAAGAAAAAGCCCATTAAGGA 263  
DB 3545 AATATTAATTAATTAATTAATTTTATTTTATTAATTAATTAATTAATTAATTA 3486  
QY 264 CCATTGAATGCGGCTGCTCATTTT 292  
DB 3485 AATAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 3457

## RESULT 3

US-09-710-279-137  
Sequence 137, Application US/09710279  
Patent No. 6703492

GENERAL INFORMATION:  
APPLICANT: KIMBERLY, WILLIAM JOHN  
TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS  
FILE REFERENCE: PUB480US  
CURRENT FILING DATE: 2000-11-09  
PRIOR APPLICATION NUMBER: 60/164,258  
PRIOR FILING DATE: 1999-11-09  
NUMBER OF SEQ ID NOS: 4472  
SOFTWARE: Patent Ver. 2.1  
SEQ ID NO 137  
LENGTH: 2250  
TYPE: DNA  
ORGANISM: Artificial Sequence

FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: synthetic  
OTHER INFORMATION: nucleic acid sequence  
US-09-710-279-137

Query Match 2.8%; Score 46.4; DB 3; Length 2250;  
Best Local Similarity 52.0%; Pred. No. 0.12;  
Matches 104; Conservative 0; Mismatches 96; Indels 0; Gaps 0;

QY 26 ATCTACATGATGATTAATTTATAGTTAGTTACTTCTTGATCAATTCGAGAGTGA 85  
DB 728 ATCTACATGATGATTAATTTATAGTTAGTTACTTCTTGATCAATTCGAGAGTGA 787  
QY 86 AAAAAATCGCAGAAAGCAATATTTTAATGATGCAATATTAATTAATTA 145  
DB 788 AACCAATGGAACGAGCAATTTACTGAAATCAATTTTATTAATTAATTA 847  
QY 146 CAATTATGATGATTAATTTATAGTTTCTTATGAAATCAATTTCTAGAGTCAATAAT 205  
DB 848 TATATCTGAGCTGATCAGTATCAATTCAGTTTATATATCTTCAATTTGAATGAATG 907  
QY 206 GCTTAATTAATTAATTTATTT 225  
DB 908 TGCAAACTTATACCAATTT 927

## RESULT 4

US-09-134-001C-777  
Sequence 777, Application US/09134001C  
Patent No. 6380370

GENERAL INFORMATION:  
APPLICANT: Lynn Doucette-Stamm et al  
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS  
FILE REFERENCE: GTC-007  
CURRENT FILING DATE: 1998-08-13  
PRIOR APPLICATION NUMBER: US 60/064,964

GenCore version 5.1.7  
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OM nucleic - nucleic search, using sw model

Run on: February 25, 2006, 10:11:22 ; Search time 1248 Seconds

(without alignments)  
10986.081 Million cell updates/sec

Title: US-10-732-721-1

Perfect score: 1658

Sequence: 1 gaattcagggctcacaatc.....ctcgtagcttgagagcg 1658

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 9793542 seqs, 4134689005 residues

Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database: Listing first 45 summaries

Published Applications NA Main:\*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

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1	1658	100.0	1658	US-10-732-721-1	Sequence 1, Appl1
2	109	6.6	868	US-10-425-115-68623	Sequence 68623, A
3	101.6	6.1	528	US-10-425-115-47987	Sequence 47987, A
4	100.4	6.1	975	US-10-425-115-181022	Sequence 181022, A
5	98.4	5.9	836	US-10-425-114-7252	Sequence 7252, Ap
6	97.4	5.9	918	US-10-425-114-13779	Sequence 13779, A
7	84.8	5.1	2211	US-10-425-115-82158	Sequence 82158, A
8	71.4	4.3	894	US-10-425-114-3295	Sequence 3295, Ap
9	71.4	4.3	1034	US-10-425-115-181033	Sequence 181033, A
10	53.2	3.1	7498	US-10-311-455-230	Sequence 230, App
11	52.2	3.1	6012	US-10-221-613-236	Sequence 236, App
12	51.4	3.1	6265	US-09-129-113-3	Sequence 3, Appl1
13	50.8	3.1	12763	US-10-311-455-276	Sequence 276, App
14	50.8	3.1	113515	US-10-311-455-2147	Sequence 2147, Ap
15	50.6	3.1	17280	US-10-221-714A-498	Sequence 498, App
16	50.4	3.0	1134	US-10-074-475-28	Sequence 28, Appl
17	50.4	3.0	15767	US-10-311-455-1179	Sequence 1179, Ap
18	50.4	3.0	15767	US-10-240-485-105	Sequence 105, App
19	50.2	3.0	8056	US-10-473-126-386	Sequence 386, App
20	50.2	3.0	17142	US-10-239-676-206	Sequence 206, App
21	50.2	3.0	17142	US-10-311-455-2080	Sequence 2080, Ap
22	50.2	3.0	17142	US-10-240-453-304	Sequence 304, App
23	49.6	3.0	653	US-10-027-632-104828	Sequence 104828, A

C	24	49.6	3.0	653	US-10-027-632-104828	Sequence 104828, A
C	25	49.6	3.0	778	US-10-027-632-142028	Sequence 142028, A
C	26	49.6	3.0	778	US-10-027-632-142028	Sequence 142028, A
C	27	49.6	3.0	3673778	US-10-312-841-1	Sequence 1, Appl1
C	28	49.4	3.0	591	US-10-437-963-21828	Sequence 21828, A
C	29	49.4	3.0	14551	US-10-240-485-137	Sequence 137, App
C	30	49.2	3.0	1501	US-10-473-126-182	Sequence 182, App
C	31	48.9	3.0	2146	US-10-602-494-302	Sequence 291, App
C	32	48.8	2.9	8961	US-10-240-453-302	Sequence 302, App
C	33	48.8	2.9	207542	US-10-893-315-148	Sequence 148, App
C	34	48.8	2.9	207557	US-10-893-315-134	Sequence 134, App
C	35	48.6	2.9	5891	US-10-221-613-43	Sequence 43, Appl
C	36	48.4	2.9	632	US-09-772-134B-57	Sequence 57, Appl
C	37	48.4	2.9	736	US-09-772-134B-53	Sequence 53, Appl
C	38	48.2	2.9	5313	US-10-311-455-736	Sequence 736, App
C	39	48.2	2.9	5768	US-10-311-455-2136	Sequence 2136, App
C	40	48.2	2.9	7276	US-10-311-455-875	Sequence 875, App
C	41	48.2	2.9	13038	US-10-311-455-1248	Sequence 1248, App
C	42	48.2	2.9	3673778	US-10-312-841-2	Sequence 2, Appl
C	43	48	2.9	6053	US-10-239-676-76	Sequence 76, Appl
C	44	48	2.9	6053	US-10-240-453-82	Sequence 82, Appl
C	45	48	2.9	7657	US-10-239-676-185	Sequence 185, App

## ALIGNMENTS

RESULT 1  
US-10-732-721-1  
Publication 1, Application US/10732721  
Publication No. US2004016314A1  
GENERAL INFORMATION:  
APPLICANT: Monsanto Technology, LLC  
TITLE OF INVENTION: Maize Embryo-Specific Promoter Compositions and Methods for Use  
FILE REFERENCE: 38-15(52826)A  
CURRENT APPLICATION NUMBER: US/10/732,721  
CURRENT FILING DATE: 2003-12-10  
PRIOR APPLICATION NUMBER: US/60/434,242  
PRIOR FILING DATE: 2002-12-18  
NUMBER OF SEQ ID NOS: 5  
SOFTWARE: PatentIn version 3.2  
SEQ ID NO 1  
LENGTH: 1658  
TYPE: DNA  
ORGANISM: Zea mays  
US-10-732-721-1

Query Match 100.0%; Score 1658; DB 7; Length 1658;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1658; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	GAATTCAGGGCTCACAATACCGCATCTACATGATTAATTTTATGATTACTT	60
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QY	61	CTGTGATCATTTCAGAGATGAAAAAATCGAAGAAAGCAATATTTTAATGAAT	120
DB	61	CTGTGATCATTTCAGAGATGAAAAAATCGAAGAAAGCAATATTTTAATGAAT	120
QY	121	GATGCAATATACAAATTTAATACCAATTTATGATTAATTTTATGATTACTT	180
DB	121	GATGCAATATACAAATTTAATACCAATTTATGATTAATTTTATGATTACTT	180
QY	181	AATCAATTTTCAGAGTCAATTAATGCTAATTAATTTATTTTCTTCTTCTTCTT	240
DB	181	AATCAATTTTCAGAGTCAATTAATGCTAATTAATTTATTTTCTTCTTCTTCTT	240
QY	241	AAAAAAGACCCATTAAGGACCATTAAGATGCGCTCCTCATTTTATATATA	300
DB	241	AAAAAAGACCCATTAAGGACCATTAAGATGCGCTCCTCATTTTATATATA	300
QY	301	GAGATGATGATTTTCTCTACCTAGGACCTGCGATGCGTCTTTATTAATCAG	360
DB	301	GAGATGATGATTTTCTCTACCTAGGACCTGCGATGCGTCTTTATTAATCAG	360

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Db      301 GAGATATGATTGTTGCTACCTAGCCACCTCCAGCTGCGTCTTTATTAACATG 360
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Db      361 AAAAAATGACCGCTGCTTTTTCATTAAGGGCTAGAGATGTAAGAGTCAACGGCTTCT 420
Qy      421 ATTCACTGACAGATTAATTTTTTTTAAATGACAGAGAGCGCTTTGATTTCTCAGACGT 480
Db      421 ATTCACTGACAGATTAATTTTTTTTAAATGACAGAGAGCGCTTTGATTTCTCAGACGT 480
Qy      481 CTGCGCGCCCGCTGCTTCTGTAAGCGAGTGAAGGACAGACAGCTCAGTCCGACG 540
Db      481 CTGCGCGCCCGCTGCTTCTGTAAGCGAGTGAAGGACAGACAGCTCAGTCCGACG 540
Qy      541 TGCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 600
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Qy      601 AGCGACGAGTTGAAGCTAAGCGGCGTGGCTGCTGCTGCTGCTGCTGCTGCTGCTG 660
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Qy      661 GACGTGACGCTGATGCTAGCGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 720
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Qy      1321 CGCAGGCGCATGCTGCTGACAGCGCATGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1380
Db      1321 CGCAGGCGCATGCTGCTGACAGCGCATGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1380
Qy      1381 GTCCGCGCGCAGCGGCGCGGAGGACTTGAATTCGTCGCGTGTGCTGCTGCTGCTG 1440

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Db      1381 GTCCGCGCGCAGCGGCGCGGAGGACTTGAATTCGTCGCGTGTGCTGCTGCTG 1440
Qy      1441 GGTCCGCGCTTCCGCGCTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1500
Db      1441 GGTCCGCGCTTCCGCGCTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1500
Qy      1501 CGGCTATTAATAAGCGCGCGCCACCTGATCTCTCACTTCAACAAAGCAAGCAGCAG 1560
Db      1501 CGGCTATTAATAAGCGCGCGCCACCTGATCTCTCACTTCAACAAAGCAAGCAGCAG 1560
Qy      1561 AGCCAAACCTTAACCTAAGAAAGAGTATGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1620
Db      1561 AGCCAAACCTTAACCTAAGAAAGAGTATGCTGCTGCTGCTGCTGCTGCTGCTG 1620
Qy      1621 CCGAGCTGCGCAGTTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1658
Db      1621 CCGAGCTGCGCAGTTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1658

RESULT 2
US-10-425-115-68623/c
; Sequence 68623, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 68623
; LENGTH: 868
; TYPE: DNA
; ORGANISM: Zee mays
; OTHER INFORMATION: Clone ID: MNT4577_162578C.1
US-10-425-115-68623

Query Match      6.6%; Score 109; DB 8; Length 868;
Best Local Similarity 74.6%; Pred. No. 1.8e-15;
Matches 150; Conservative 0; Mismatches 50; Indels 1; Gaps 1;

Qy      1 GAATTCACGGCTCACAATACAGTATCTACATGATTAATTTATAGTTAGATTCTT 60
Db      556 GAATTCACGGCTCACAATACAGTATCTACATGATTAATTTATAGTTAGATTCTT 497
Qy      61 CTGTATATCAATTCAGAGATGAATAAATGCGAAGAAAGCAATATTTTAAATGAT 120
Db      496 ATGTATATCAATTTTGAAGATGAATAATTAATTTGT-AAAACAAATGCTTAAATTAAT 438
Qy      121 GATGCAATATACAAATTAATTAACAAATTAATGATTAATGATTAATGATTAATGA 180
Db      437 GGCCTATATACAAATTAATTAATGATTAATGATTAATGATTAATGATTAATGATTA 378
Qy      181 AATCAATTTCTAGAGTCATTA 201
Db      377 ATTTCAGAAATTAATTTCTAA 357

RESULT 3
US-10-425-115-47987/c
; Sequence 47987, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With

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C	1	48.8	2.9	8961	8	US-10-240-708-80	Sequence 80, App
C	2	47.2	2.8	1882	8	US-10-750-185-40265	Sequence 40265, App
C	3	47.2	2.8	1882	6	US-10-750-623-40265	Sequence 40265, App
C	4	46.8	2.8	573	6	US-09-925-065A-42901	Sequence 42901, App
C	5	46.8	2.8	639	6	US-09-925-065A-694415	Sequence 694415, App
C	6	46.4	2.8	2250	8	US-10-793-626-137	Sequence 137, App
C	7	46.4	2.8	4198	8	US-10-793-626-3604	Sequence 3604, App
C	8	46.4	2.8	9347	8	US-10-240-708-35	Sequence 35, App
C	9	46.4	2.8	173602	12	US-11-121-086-25	Sequence 25, App
C	10	46.2	2.8	522	6	US-09-925-065A-21679	Sequence 21679, App
C	11	45.6	2.8	573	6	US-09-925-065A-42900	Sequence 42900, App
C	12	45.6	2.8	600	8	US-10-750-185-20202	Sequence 20202, App
C	13	45.6	2.8	600	8	US-10-750-623-20202	Sequence 20202, App
C	14	44.8	2.7	819	6	US-09-925-065A-693077	Sequence 693077, App
C	15	44.8	2.7	188682	12	US-11-112-908-23	Sequence 23, App
C	16	44.6	2.7	430	6	US-09-925-065A-628312	Sequence 628312, App
C	17	44.6	2.7	610	6	US-09-925-065A-542840	Sequence 542840, App
C	18	44.6	2.7	662	6	US-09-925-065A-806113	Sequence 806113, App
C	19	44.6	2.7	49979	8	US-10-995-561-13443	Sequence 13443, App
C	20	44.4	2.7	558	6	US-09-925-065A-599598	Sequence 599598, App

C	21	44.2	2.7	1470	6	US-09-92S-065A-56768	Sequence 56768, A
C	22	44	2.7	6656	8	US-10-240-708-75	Sequence 75, Appl
C	23	44	2.7	194553	12	US-11-098-686-8738	Sequence 8738, Ap
C	24	43.8	2.6	536	6	US-09-92S-065A-182448	Sequence 182448,
C	25	43.8	2.6	5152	8	US-10-240-708-74	Sequence 74, Appl
C	26	43.6	2.6	819	6	US-09-92S-065A-692078	Sequence 692078,
C	27	43.6	2.6	3604	8	US-10-750-185-53243	Sequence 53243, A
C	28	43.6	2.6	3604	8	US-10-750-623-55243	Sequence 55243, A
C	29	43.6	2.6	1082144	12	US-11-117-187-211	Sequence 211, Ap
C	30	43.4	2.6	1483	8	US-10-750-185-33052	Sequence 33052, A
C	31	43.4	2.6	1483	8	US-10-750-623-33052	Sequence 33052, A
C	32	43.4	2.6	6182	8	US-10-240-708-87	Sequence 87, Appl
C	33	43.2	2.6	558	6	US-09-92S-065A-599599	Sequence 599599,
C	34	43.2	2.6	599	6	US-09-92S-065A-312823	Sequence 312823,
C	35	43.2	2.6	631	6	US-09-92S-065A-584819	Sequence 584819,
C	36	43	2.6	545	6	US-09-92S-065A-614821	Sequence 614821,
C	37	42.8	2.6	562	6	US-09-92S-065A-659587	Sequence 659587,
C	38	42.8	2.6	631	6	US-09-92S-065A-584820	Sequence 584820,
C	39	42.8	2.6	191684	12	US-11-121-086-2	Sequence 2, Appl
C	40	42.6	2.6	637	6	US-09-92S-065A-643726	Sequence 643726,
C	41	42.6	2.6	819	6	US-09-92S-065A-692077	Sequence 692077,
C	42	42.6	2.6	1493	8	US-10-750-185-25365	Sequence 25365, A
C	43	42.6	2.6	1493	8	US-10-750-623-25365	Sequence 25365, A
C	44	42.6	2.6	28536	12	US-11-041-332A-152	Sequence 15, App
C	45	42.4	2.6	11049	8	US-10-240-708-22	Sequence 22, Appl

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RESULT 1
US-10-240-708-80/C
Sequence 80, Application US/10240708
Publication No. US20050282157A1
GENERAL INFORMATION:
APPLICANT: OLEK, Alexander
APPLICANT: PIEPENBROCK, Christian
APPLICANT: BERLIN, Kurt
TITLE OF INVENTION: Diagnosis of Diseases Associated with DNA Replication
TITLE OF INVENTION: by Assessing DNA Methylation
FILE REFERENCE: 5013.1012
CURRENT APPLICATION NUMBER: US/10/240.708
CURRENT FILING DATE: 2002-10-03
PRIORITY APPLICATION NUMBER: PCT/EP01/02971
PRIORITY FILING DATE: 2001-04-06
PRIORITY APPLICATION NUMBER: DE 10013058.8
PRIORITY FILING DATE: 2000-04-06
PRIORITY APPLICATION NUMBER: DE 10019173.8
PRIORITY FILING DATE: 2000-04-07
PRIORITY APPLICATION NUMBER: DE 10032529.7
PRIORITY FILING DATE: 2000-06-30
PRIORITY APPLICATION NUMBER: DE 10043826.1
PRIORITY FILING DATE: 2000-09-01
NUMBER OF SEQ ID NOS: 98
SEQ ID NO 80
LENGTH: 8961
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
FEATURE:
NAME/KEY: unseq
LOCATION: (5096)
US-10-240-708-80

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Query Match	2.9%	Score	48.8	DB	8	Length	8961
Best Local Similarity	51.4%	Pred. No.	3.6				
Matches 113; Conservative	0	Mismatches	107			Indels	0
						Gaps	0

QY	33	CGTGAATATTTATAGTATAGTATACCTCTGTAATCATTTGAGAGATGAAAAAAAAAT	92
Db	5927	TATAAATATATTTAATTAACGACGACCTTACATATTTATATAATTCAAAATATATAA	5866

QY 93 CGCAGAGAGCAATATTTTAAATGATGCAATATACAAATTTAATACAAATTT 152  
DB 5867 TAAAAAATTAATATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 5808  
QY 153 GTAAGATTACATTTGTTTGTTCATAGAAATCAATTTCTAGAGCATATATGCTTAA 212  
DB 5807 CCATATTAATAACGACATTAATAATTAATTAATTAATTAATTAATTAATTAATTA 5748  
QY 213 TTAATATCTATTTCTATTTTCTTAAAGAAAAAAGCAGC 252  
DB 5747 AAATCTTACTATAACATTAATAACCTAAAAAAGAAAAAAC 5708

RESULT 2  
US-10-750-185-40265/C  
Sequence 40265, Application US/10750185  
GENERAL INFORMATION:  
APPLICANT: MMI GENOMICS, INC.  
APPLICANT: DENISE, Sue K.  
APPLICANT: KERR, Richard  
APPLICANT: ROSENFIELD, David  
APPLICANT: HOLM, Tom  
APPLICANT: BATES, Stephen  
APPLICANT: FANTIN, Dennis  
TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS  
FILE REFERENCE: MM1100-2  
CURRENT APPLICATION NUMBER: US/10/750,185  
CURRENT FILING DATE: 2003-12-31  
PRIOR APPLICATION NUMBER: US 60/437,482  
PRIOR FILING DATE: 2002-12-31  
NUMBER OF SEQ ID NOS: 64922  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 40265  
LENGTH: 1882  
TYPE: DNA  
ORGANISM: Bovine 19866880841243  
US-10-750-185-40265

Query Match 2.8%; Score 47.2; DB 8; Length 1882;  
Best Local Similarity 49.6%; Pred. No. 5;  
Matches 121; Conservative 0; Mismatches 123; Indels 0; Gaps 0;

QY 80 ATGAAAAAAATCCGAGAGAGCAATATTTTAAATGATGCAATATACAAATTTA 139  
DB 1638 ATAAAAAATGAGAACTGAGAGCTTTTACTACTATTAATATTAATTAATTT 1579  
QY 140 ATTACAAATTTGTAAGTATCTATTTTCTTAAAGAAAAAAGCAGCATTT 199  
DB 1578 CATACCATTTTAATCATATTTTATTTTCTTAAAGCAATTTTACTGCTGTAAGAA 1519  
QY 200 AATAATGCTTAATTAATTAATTTCTATTTTCTTAAAGAAAAAAGCAGCATTTA 259  
DB 1518 ACTATTCAGAGATTAAAGACTTTTCTTCTTCTGTAATCAAGTTGCAATAGT 1459  
QY 260 GGAACCATTAAGATGCGCTGCTCATTTTATATATAGATGATGATTTGCTC 319  
DB 1458 TATATATCATTAACAAAGATCTCAACTGTAATCAGTTTACTGAGATTATACAC 1399  
QY 320 ACTA 323  
DB 1398 ATTA 1395

RESULT 3  
US-10-750-623-40265/C  
Sequence 40265, Application US/10750623  
GENERAL INFORMATION:  
APPLICANT: MMI GENOMICS, INC.  
APPLICANT: DENISE, Sue K.  
APPLICANT: KERR, Richard  
APPLICANT: ROSENFIELD, David

APPLICANT: HOLM, Tom  
APPLICANT: BATES, Stephen  
APPLICANT: FANTIN, Dennis  
TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS  
FILE REFERENCE: MM1100-1  
CURRENT APPLICATION NUMBER: US/10/750,623  
CURRENT FILING DATE: 2003-12-31  
PRIOR APPLICATION NUMBER: US 60/437,482  
PRIOR FILING DATE: 2002-12-31  
NUMBER OF SEQ ID NOS: 64922  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 40265  
LENGTH: 1882  
TYPE: DNA  
ORGANISM: Bovine 19866880841243  
US-10-750-623-40265

Query Match 2.8%; Score 47.2; DB 8; Length 1882;  
Best Local Similarity 49.6%; Pred. No. 5;  
Matches 121; Conservative 0; Mismatches 123; Indels 0; Gaps 0;

QY 80 ATGAAAAAAATCCGAGAGAGCAATATTTTAAATGATGCAATATACAAATTTA 139  
DB 1638 ATAAAAAATGAGAACTGAGAGCTTTTACTACTATTAATATTAATTAATTT 1579  
QY 140 ATTACAAATTTGTAAGTATCTATTTTCTTAAAGAAAAAAGCAGCATTT 199  
DB 1578 CATACCATTTTAATCATATTTTATTTTCTTAAAGCAATTTTACTGCTGTAAGAA 1519  
QY 200 AATAATGCTTAATTAATTAATTTCTATTTTCTTAAAGAAAAAAGCAGCATTTA 259  
DB 1518 ACTATTCAGAGATTAAAGACTTTTCTTCTTCTGTAATCAAGTTGCAATAGT 1459  
QY 260 GGAACCATTAAGATGCGCTGCTCATTTTATATATAGATGATGATTTGCTC 319  
DB 1458 TATATATCATTAACAAAGATCTCAACTGTAATCAGTTTACTGAGATTATACAC 1399  
QY 320 ACTA 323  
DB 1398 ATTA 1395

RESULT 4  
US-09-925-065A-42901  
Sequence 42901, Application US/09925065A  
GENERAL INFORMATION:  
APPLICANT: Wang, David G.  
TITLE OF INVENTION: Identification and Mapping of Single  
FILE REFERENCE: 108827.135  
CURRENT APPLICATION NUMBER: US/09/925,065A  
CURRENT FILING DATE: 2001-08-08  
PRIOR APPLICATION NUMBER: US 60/243,096  
PRIOR FILING DATE: 2000-10-24  
PRIOR APPLICATION NUMBER: US 60/252,147  
PRIOR FILING DATE: 2000-11-20  
PRIOR APPLICATION NUMBER: US 60/250,092  
PRIOR FILING DATE: 2000-11-30  
PRIOR APPLICATION NUMBER: US 60/261,766  
PRIOR FILING DATE: 2001-01-16  
PRIOR APPLICATION NUMBER: US 60/289,846  
PRIOR FILING DATE: 2001-05-09  
NUMBER OF SEQ ID NOS: 957086  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 42901  
LENGTH: 573  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-925-065A-42901

Query Match 2.8%; Score 46.8; DB 6; Length 573;  
Best Local Similarity 53.1%; Pred. No. 4.4;